

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Page 1 of 2

Application Number	10/620027
Filing Date	July 15, 2003
First Named Inventor	Gerlach, Christopher P.
Art Unit	1621
Examiner Name	Unknown
Attorney Case Number	58783US002

## U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
Con	A1	US- 2003/0094959 A1	05/22/2003	Hoisington et al.	
	A2	US- 2003/0102471 A1	06/05/2003	Kelley et al.	
	A3	US- 2003/0105365 A1	06/05/2003	Smith et al.	
	A4	US- 2003/0150384 A1	08/14/2003	Baude et al.	
	A5	US- 5,347,144	09/13/1994	Garnier et al.	
	A6	US- 5,956,679	09/21/1999	Komori et al.	
	A7	US- 6,215,130 B1	04/10/2001	Dodabalapur	
	A8	US- 6,265,243 B1	07/24/2001	Katz et al.	
	A9	US- 6,288,188 B1	09/11/2001	Godschalx et al.	
Con	A10	US- 6,433,359 B1	08/13/2002	Kelley et al.	

## Foreign Patent Documents

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	B1						

## OTHER DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
Con	C1	C. D. SHERAW et al., "Organic Thin-Film Transistor-Driven Polymer-Dispersed Liquid Crystal Displays on Flexible Polymeric Substrates", Applied Physics Letter, (February 11, 2002), pp. 1088-1090, Vol. 80, No. 6, American Institute of Physics, Melville, NY	
	C2	C. D. DIMITRAKOPOULOS, et al., "Organic Thin Film Transistors for Large Area Electronics", Advanced Materials, (January 16, 2002), pp. 99-117, Vol. 14, No. 2, WILEY-VCH-Verlag GmbH, D-69469 Weinheim, Germany	
	C3	A. KRAFT, "Organic Field-Effect Transistors - The Breakthrough at Last", CHEMPHYSICHEM, (2001), pp. 163-165, Vol. 2, WILEY-VCH-Verlag GmbH, D-69451, Weinheim, Germany	
	C4	S. J. MARTIN, "Development of a Low-Dielectric-Constant Polymer for the Fabrication of Integrated Circuit Interconnect", Advanced Materials, (December 1, 2000), pp. 1769-1778, Vol. 12, No. 23, WILEY-VCH- Verlag GmbH, D-69469, Weinheim, Germany	
Con	C5	C. D. SHERAW, "Spin-On Polymer Gate Dielectric for High Performance Organic Thin Film Transistors", Mat. Res. Soc. Symp. Proc., (2000), pp. 403-408, Vol. 558, Materials Research Society	

\*Examiner:

W. S. Gerlach

Date Considered:

8/31/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>Substitute for form 1449/PTO (modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 2 of 2	<b>Application Number</b>	10/620027
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	C6	P. VAN ZANT, "Microchip Fabrication", (2000), 4 <sup>th</sup> Edition, McGraw-Hill, NY	
con	C7	S. M. SZE, "Physics of Semiconductor Devices", (1981), pp. 492-493, 2 <sup>nd</sup> Edition, John Wiley & Sons, NY	
	C8	K. ITO, "Oligo(2,6-anthrylene)s: Acene-Oligomer Approach for Organic Field-Effect Transistors", Angewandte Chemie International Edition, (2003), pp. 1159-1162, Vol. 42, No. 10, WILEY-VCH-Verlag GmbH & Co. KGaA, Weinheim, Germany	
	C9	H. E. KATZ, "Synthetic Chemistry for Ultrapure, Processable, and High-Mobility Organic Transistor Semiconductors", Accounts of Chemical Research, (May 2001), pp. 359-369, Vol. 34, No. 5, American Chemical Society, Washington, DC	
	C10	"Organic Reactions", (1997), Vol. 50, John Wiley & Sons, Inc., NY	
	C11	A. F. LITKE et al., "Pd/P(t-Bu) <sub>3</sub> : A Mild and General Catalyst for Stille Reactions of Aryl Chlorides and Aryl Bromides", Journal of the American Chemical Society, (June 5, 2002), pp. 6343-6348, Vol. 124, No. 22, American Chemical Society, Washington, DC	
	C12	J. E. BANKS, "Cyclic Hydrocarbons and Substituted Hydrocarbons", Naming Organic Compounds, (1976), p. 124, 2 <sup>nd</sup> Edition, W. B. Saunders Co., Philadelphia, PA	
	C13	D. J. GUNDLACH et al., "Solvent-Induced Phase Transition in Thermally Evaporated Pentacene Films", Applied Physics Letters, (May 31, 1999), pp. 3302-3304, Vol. 74, No. 22, American Institute of Physics, Melville, NY	
	C14	H. KLAUK et al., "High-Mobility Polymer Gate Dielectric Pentacene Thin Film Transistors", Journal of Applied Physics, (November 1, 2002), pp. 5259-5263, Vol. 92, No. 9, American Institute of Physics, Melville, NY	
	C15	D. KNIPP et al., "Pentacene Thin Film Transistors on Inorganic Dielectrics: Morphology, Structural Properties, and Electronic Transport", Journal of Applied Physics, (January 1, 2003), pp. 347-355, Vol. 93, No. 1, American Institute of Physics, Melville, NY	
	C16	T. W. KELLEY et al., "High-Performance OTFTs Using Surface-Modified Alumina Dielectrics", Journal of Physical Chemistry, (June 19, 2003), pp. 5877-5881, Vol. 107, No. 24, American Chemical Society	
	C17	H. SIRRINGHAUS et al., "Mobility Enhancement in Conjugated Polymer Field-Effect Transistors Through Chain Alignment in a liquid-Crystalline Phase", Applied Physics Letters, (July 17, 2000), pp. 406-408, Vol. 77, No. 3, American Institute of Physics, Melville, NY	
	C18	Patent Application U.S.S.N. 10/434377, filed May 8, 2003, entitled "Organic Polymers, Electronic Devices, and Methods"	
con	C19	Patent Application U.S.S.N. 10/328461, filed December 23, 2002, entitled "AC Powered Logic Circuitry"	

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Can	B1	EP	0 275 075 A2	07/20/1988			
	B2	EP	0 744 406 A2	11/27/1996			
Can	B3	WO	93/09079 A1	05/13/1993			

OTHER DOCUMENTS			
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Can	C1	LIU et al., "Photophysical Behaviors of Oligomer Based on 1,1'-Binaphthol with 3,3'-Acetylene Spacer", Chinese Journal of Polymer Science, (1998), pp. 234-240, Vol. 16, No. 3	
	C2	SCHMIDT et al., "2,2'-(Ethynediyl)bis(4-alkoxy-1-naphthols) and Dinaphthofuro[3,2-b]furans — Substances with Unusual Photoreactivity and Photochromic Behavior", Angew. Chem. Int. Ed. Engl., (1991), pp. 866-867, Vol. 30, No. 7	
	C3	MURAI et al., "Development of Novel Heterobimetallic Catalyst Using Linked BINOL as a Ligand and its Application to Tandem Henry Reaction", pp. 60-61, The Institute of Scientific and Industrial Research, Osaka University, Japan	
	C4	HIRD et al., "The Synthesis and High Optical Birefringence of Nematogens Incorporating 2,6-disubstituted Naphthalenes and Terminal Cyano-Substituents", Liquid Crystals, (1993), pp. 123-150, Vol. 15, No. 2	
	C5	MENG et al., "Stepwise Synthesis and Characterization of Oligomers Based on 1,1'-binaphthol with 3,3'-acetylene Spacer", Tetrahedron: Asymmetry 9 (1998), pp. 3693-3707, Elsevier Science Ltd.	
	C6	LI, et al., "Palladium Catalysed Polymerization of Aryl Diodides with Acetylene Gas in Aqueous Medium: A Novel Synthesis of Areneethynylene Polymers and Oligomers", Chem. Commun., (1997) pp. 1569-1570	
	C7	TAYAMA et al., "Activation of Ether Functionality of Allyl Vinyl Ethers by Chiral Bis(organoaluminum) Lewis Acids: Application to Asymmetric Claisen Rearrangement", Tetrahedron 58, (2002), pp. 8307-8312, Elsevier Science Ltd.	
	C8	WANG et al., "Enantiomeric Discrimination of Chiral Amines with New Fluorescent Chemosensors", Chem. Commun., (1998), pp. 1747-1748	
Can	C9	YIN et al., "A Synthesis of Trisquinones", J. Org. Chem., (1998), pp. 5726-5727, Vol. 63, American Chemical Society	

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